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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/446,508 12/27/99 PALVIAINEN

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EXAMINER

WM01/1003

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1100 NEW YORK AVENUE NW
NINTH FLOOR
WASHINGTON DC 20005-3918

DAVIS, T	
ART UNIT	PAPER NUMBER

2681

DATE MAILED:

10/03/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/446,508

Applicant(s)

Palvianen

Examiner

Temica M. Davis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Dec 27, 1999
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirements.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 3
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

2. Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Joong et al., US Patent Number 6,134,433 (hereinafter Joong).

Regarding claim 1, Joong discloses a method for implementing call forwarding in a mobile system comprising at least one forwarding exchange (GMSC; VMSC) for carrying out call forwarding on the basis of subscriber data related to the call forwarding, at least one subscriber database (HLR; VLR) for storing the subscriber data related to the call forwarding, the method comprising the steps of receiving at the forwarding exchange a call set-up message addressed to a subscriber in the mobile system [col. 5: lines 36-47], performing a subscriber data request to the subscriber database [col. 5: lines 40-45], transmitting a response message from the subscriber database to the forwarding exchange, the message containing data indicating the call forwarding and a forwarding number [col. 5: lines 45-56], characterized by providing the

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forwarding exchange with a basic service code [col. 6: lines 28-33], and implementing call routing to the forwarding number according to the basic service code [col. 6: lines 21-43].

Regarding claim 2, Joong discloses a method for implementing call forwarding in a mobile system comprising at least a first exchange for carrying out call forwarding on the basis of subscriber data related to the call forwarding, at least one home location register connected to the first exchange for storing the subscriber data related to the call forwarding, the method comprising the steps of receiving at the first exchange a call set-up message addressed to a subscriber in the mobile system, requesting routing information from the home location register to the first exchange, the message containing data indicating the call forwarding and a forwarding number, characterized by providing the forwarding exchange with a basic service code indicating the basic service related to the call in connection with the call set-up message or a response message to said routing information request, implementing call routing to the forwarding number according to said basic service code [col. 5: line 36 - col. 6: line 43].

Regarding claim 3, Joong discloses the basic service code is forwarded from the home location register to the first exchange via an extension added to the response message Send_Routing_Info_RES to the routing information request [co. 6: lines 44-65].

Regarding claim 4, Joong discloses a method for implementing call forwarding in a mobile system comprising at least one exchange for carrying out call forwarding on the basis of subscriber data related to the call forwarding, at least one visitor location register for storing the subscriber data related to the call forwarding, the method comprising the steps of receiving at the

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exchange a call set-up message addressed to a subscriber in the mobile system, providing a subscriber data request to the visitor location register connected to the exchange, transmitting a response message from the visitor location register to the exchange, the message containing data indicating the call forwarding and a forwarding number, characterized by providing the forwarding exchange with a basic service code in connection with the call set-up message or said response message and implementing call routing to the forwarding number according to the basic service code [col. 5: line 36 - col. 6: line 65].

Regarding claim 5, Joong discloses a home location register connected to a first exchange in a mobile system, characterized in that the home location register is arranged to transmit a basic service code to the first exchange in connection with a response message to a routing information request, the data indicating the basic service related to the call [col. 6: lines 10-43].

Regarding claim 6, Joong discloses the home location register is arranged to forward the basic service code to the first exchange by means of an extension added to the response message Send_Routing_Info_RES to the routing information request [col. 6: lines 44-65].

Regarding claim 7, Joong discloses a first exchange in a mobile system, comprising means for transferring a call to a forwarding number, characterized in that the exchange is arranged to derive a basic service code from the call set-up message or from a response message transmitted by the home location register to the first exchange in response to a subscriber data request, and the exchange is arranged to route the call to the forwarding number according to the basic service code [col. 5: line 36 - col. 6: line 65].

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Regarding claim 8, Joong discloses the exchange is arranged to receive the basic service code in an extension added to the response message Send_Routing_Info_RES to the routing information request [col. 6: lines 44-65].

Regarding claim 9, Joong discloses the forwarding number is the number of a Voice Mail Service center having several lines, and that said exchange is arranged to transfer the call to the Voice Mail Service center via a line selected for the transfer according to the basic service code [col. 4: lines 30-44].

Regarding claim 10, Joong discloses the exchange is arranged to subject the forwarding number to a conversion selected according to the basic service code [col. 6: lines 21-43].

Regarding claim 11, Joong discloses an exchange in a mobile system, comprising means for transferring a call to a forwarding number, characterized in that the exchange is arranged to derive a basic service code from basic service data that indicates the basic service of the call and that is transmitted in connection with the call set-up message or a response message transmitted from the visitor location register to the exchange in response to a subscriber data request, and the exchange is arranged to perform routing to the forwarding number according to said basic service code [col. 5: line 36 - col. 6: line 65].

Regarding claim 12, Joong discloses the exchange is arranged to derive the basic service code at least on the basis of the bearer capability information element contained in the basic service data [col. 6: line 21 -28].

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Regarding claim 13, Joong discloses the forwarding number is the number of a Voice Mail Service center having several lines, and that the exchange is arranged to transfer the call to the Voice Mail Service center via a line selected for the transfer according to the basic service code [col. 4: lines 30-44].

Regarding claim 14, Joong discloses the exchange is arranged to subject the forwarding number to a conversion selected according to the basis service code [col. 6: lines 21-43].

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Davis whose telephone number is (703) 306-5837. The examiner can normally be reached on Monday-Thursday from 8:30 am to 6:00 pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Dwayne Bost, can be reached on (703) 305-4778.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC2600 customer service whose telephone number is (703)306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314 (for any communications intended for entry).

Hand-delivered responses should be brought to Crystal Park II, 2121

Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).



Temica M. Davis

September 30, 2001


TRACY LEGREE
PRIMARY EXAMINER